

ABSTRACT

5 A "header-less" radiator utilizes a radiator core including tubes having end walls which are bifurcated for a short distance from the ends of the tubes and having one or both of the side walls in the bifurcated segment of the tube formed outward and adapted to contact and be joined in a fluid tight manner with the side wall of an adjacent tube in the radiator core. A collecting tank has walls extending partially over the core to a distance beyond the bifurcation of the side walls, and joined to the end walls of the tubes in a fluid tight manner, such that the walls of the collecting tank in conjunction with the bifurcated end walls and outwardly formed side walls of the tubes define a common fluid plenum providing fluid communication between the tubes and the collecting tank. In various disclosed forms, the bifurcation terminates in a smooth curve, or a second bifurcation is provided to facilitate manufacture and enhance performance.